



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : <b>C12N 15/12, C07K 14/47, 16/18, G01N 33/566, C12Q 1/68, C12N 15/11, 15/62, A01K 67/027, A61K 38/00</b>		A2	(11) International Publication Number: <b>WO 00/58473</b> (43) International Publication Date: 5 October 2000 (05.10.00)																												
(21) International Application Number: PCT/US00/08621 (22) International Filing Date: 31 March 2000 (31.03.00)  (30) Priority Data: <table border="0"> <tr> <td>60/127,607</td> <td>31 March 1999 (31.03.99)</td> <td>US</td> </tr> <tr> <td>60/127,636</td> <td>2 April 1999 (02.04.99)</td> <td>US</td> </tr> <tr> <td>60/127,728</td> <td>5 April 1999 (05.04.99)</td> <td>US</td> </tr> <tr> <td>09/540,763</td> <td>30 March 2000 (30.03.00)</td> <td>US</td> </tr> </table> (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Applications <table border="0"> <tr> <td>US</td> <td>60/127,607 (CIP)</td> </tr> <tr> <td>Filed on</td> <td>31 March 1999 (31.03.99)</td> </tr> <tr> <td>US</td> <td>60/127,636 (CIP)</td> </tr> <tr> <td>Filed on</td> <td>2 April 1999 (02.04.99)</td> </tr> <tr> <td>US</td> <td>60/127,728 (CIP)</td> </tr> <tr> <td>Filed on</td> <td>5 April 1999 (05.04.99)</td> </tr> <tr> <td>US</td> <td>09/540,763 (CIP)</td> </tr> <tr> <td>Filed on</td> <td>30 March 2000 (30.03.00)</td> </tr> </table> (71) Applicant (for all designated States except US): CURAGEN CORPORATION [US/US]; 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511 (US).		60/127,607	31 March 1999 (31.03.99)	US	60/127,636	2 April 1999 (02.04.99)	US	60/127,728	5 April 1999 (05.04.99)	US	09/540,763	30 March 2000 (30.03.00)	US	US	60/127,607 (CIP)	Filed on	31 March 1999 (31.03.99)	US	60/127,636 (CIP)	Filed on	2 April 1999 (02.04.99)	US	60/127,728 (CIP)	Filed on	5 April 1999 (05.04.99)	US	09/540,763 (CIP)	Filed on	30 March 2000 (30.03.00)	(72) Inventors; and (75) Inventors/Applicants (for US only): SHIMKETS, Richard, A. [US/US]; 191 Lee's Street, West Haven, CT 06516 (US). LEACH, Martin [GB/US]; 884 School Street, Webster, MA 01570 (US). (74) Agent: ELRIFI, Ivor, R.; Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111 (US). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  Published Without international search report and to be republished upon receipt of that report.	
60/127,607	31 March 1999 (31.03.99)	US																													
60/127,636	2 April 1999 (02.04.99)	US																													
60/127,728	5 April 1999 (05.04.99)	US																													
09/540,763	30 March 2000 (30.03.00)	US																													
US	60/127,607 (CIP)																														
Filed on	31 March 1999 (31.03.99)																														
US	60/127,636 (CIP)																														
Filed on	2 April 1999 (02.04.99)																														
US	60/127,728 (CIP)																														
Filed on	5 April 1999 (05.04.99)																														
US	09/540,763 (CIP)																														
Filed on	30 March 2000 (30.03.00)																														
(54) Title: NUCLEIC ACIDS INCLUDING OPEN READING FRAMES ENCODING POLYPEPTIDES; "ORFX"																															
(57) Abstract  The present invention provides open reading frames ORFX, encoding isolated polypeptides, as well as polynucleotides encoding ORFX and antibodies that immunospecifically bind to ORFX or any derivative, variant, mutant, or fragment of the ORFX polypeptides, polynucleotides or antibodies. The invention additionally provides methods in which the ORFX polypeptide, polynucleotide and antibody are used in detection and treatment of a broad range of pathological states, as well as to other uses.																															